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Name of Applicant, Assignee or  
Registered Representative



Signature

Our Case No. 8285-414

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: )  
Rosenberg )  
Serial No.: 09/772,379 )  
Filed: January 29, 2001 ) Group Art Unit: 2681  
For: Intelligent Roaming Method for )  
Enabling a Mobile Station to )  
Select a Preferred Neutral Service )  
Provider within a Communication )  
System )

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please enter the following amendment prior to examination.

**IN THE SPECIFICATION**

- (1) Please delete the paragraph on lines 5-6 on page 28.

(2) Please replace the paragraph on lines 9-30 on page 28 with the following paragraph. Appendix A contains a marked-up version of this paragraph to show the changes being made.

The present invention relates to an intelligent roaming method for enabling a mobile station to select a preferred neutral service provider within a communication system. The present invention permits a mobile station to obtain service on a preferred cellular or PCS system, when there are multiple bands and multiple air-interface technologies available. In the preferred embodiment of the present invention, a System Access List (SAL) is stored within a memory or other storage device of the mobile station. When the mobile station is roaming, the SAL may be accessed to indicate the band or bands where the mobile station may find a service provider. The SAL may also include information to indicate the air-interface technology supported on each of the preferred bands, to assist the mobile station in finding a system of a given technology type.

### REMARKS

In this Preliminary Amendment, Applicant has amended the abstract in response to the Notice to File Missing Parts dated March 12, 2001.

Dated: May 8, 2001

Respectfully submitted,



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## APPENDIX A



The present invention relates to an intelligent roaming method for enabling a mobile station to select a preferred neutral service provider within a communication system. The present invention permits a mobile station to obtain service on a preferred cellular or PCS system, when there are multiple bands and multiple air-interface technologies available. In the preferred embodiment of the present invention, a System Access List (SAL) is stored within a memory or other storage device of the mobile station. When the mobile station is roaming, the SAL may be accessed to indicate the band or bands where the mobile station may find a service provider. The SAL may also include information to indicate the air-interface technology supported on each of the preferred bands, to assist the mobile station in finding a system of a given technology type.

[An intelligent roaming method enables a mobile station (68) to select a preferred neutral service provider from a plurality of service providers within a communication system. The mobile station (68) identifies (S.4) a current communication system servicing a geographic area where the mobile station (68) is presently located. The mobile station (68) determines that the current communication system identified is not serviced by a home service provider (S.6) or by a preferred service provider (S.12) having a roaming agreement with the home service provider. Upon not finding home or preferred service, the mobile station (68) determines whether or not it is programmed for full service priority (S.16.2). If the mobile station (68) is programmed for full service priority, then mobile station (68) selects (S.16.8) the current communication system as the preferred neutral service provider (S.16.7) only when a frequency band of the current communication system corresponds to a first frequency band of frequency bands listed in priority order in a system access list (SAL) (S.16.4) stored in the mobile station (68) to permit the mobile station (68) to obtain full service (i.e., make and receive calls per roaming agreement) from the current communication system. Alternatively, the mobile station (68) selects (S.16.6) the current communication system as a foreign service provider (S.16.5) when the frequency band of the current communication system does not correspond to the first frequency band of frequency bands listed in priority order in the SAL to permit the mobile station (68) to obtain emergency service (i.e., only make "911" calls and not receive calls) from the current communication system. If the mobile station (68) is not programmed for full service priority, then mobile station selects (S.16.3) the current communication system as a neutral service provider to permit the

mobile station (68) to obtain limited service (i.e., only make credit card calls and not receive calls) from the current communication system.]